

Application Serial No.: 10/055,845

Attorney Docket No.: eVionyx-0013USAAON00

In The Claims

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (New) A rechargeable metal air cell comprising:

a housing;

an anode, a cathode, and a separator disposed in the housing and enveloping the anode, the cathode in ionic communication with the anode through the separator;

an electrolyte disposed in the housing and in fluid communication with the cathode and the separator; and

at least one tube disposed in the housing, the at least one tube defining a proximal opening and a distal opening, the proximal opening contacting the anode through the separator and the distal opening contacting the electrolyte thereby establishing fluid communication between the anode and the electrolyte through the tube.

7. (New) The rechargeable metal air cell of claim 7 further comprising a charging electrode disposed in the housing between the anode and the cathode.

8. (New) A rechargeable metal air cell comprising:

a housing;

an anode, a cathode, and a separator disposed in the housing and enveloping the anode, the cathode in ionic communication with the anode through the separator;

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an electrolyte disposed in the housing and in fluid communication with the cathode and the separator; and

a frame defining a plurality of apertures and disposed in the housing, the anode disposed inside the frame, at least one of the plurality of apertures establishing fluid communication between the anode and the electrolyte through the separator.

9. (New) The rechargeable metal air cell of claim 9 further comprising a charging electrode disposed in the housing between the anode and the cathode.

10. (New) A rechargeable nickel-zinc electrochemical cell comprising:

a housing;

a zinc anode, a nickel cathode, and a separator disposed in the housing and enveloping the zinc anode, the nickel cathode in ionic communication with the zinc anode through the separator;

an electrolyte disposed in the housing and in fluid communication with the nickel cathode and the separator; and

at least one tube disposed in the housing, the at least one tube defining a proximal opening and a distal opening, the proximal opening contacting the zinc anode through the separator and the distal opening contacting the electrolyte thereby establishing fluid communication between the zinc anode and the electrolyte through the tube.

11. (New) The rechargeable nickel-zinc electrochemical cell of claim 10 further comprising a charging electrode disposed in the housing between the zinc anode and the nickel cathode.

12. (New) A rechargeable nickel-zinc electrochemical cell comprising:

a housing;

a zinc anode, a nickel cathode, and a separator disposed in the housing and enveloping the zinc anode, the nickel cathode in ionic communication with the zinc anode through the separator;

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an electrolyte disposed in the housing and in fluid communication with the nickel cathode and the separator; and

a frame defining a plurality of apertures and disposed in the housing, the zinc anode disposed inside the frame, at least one of the plurality of apertures establishing fluid communication between the zinc anode and the electrolyte through the separator.

13. (New) The rechargeable nickel-zinc electrochemical cell of claim 12 further comprising a charging electrode disposed in the housing between the zinc anode and the nickel cathode.

14. (New) A rechargeable nickel-iron electrochemical cell comprising:

a housing;

a iron anode, a nickel cathode, and a separator disposed in the housing and enveloping the iron anode, the nickel cathode in ionic communication with the iron anode through the separator;

an electrolyte disposed in the housing and in fluid communication with the nickel cathode and the separator; and

at least one tube disposed in the housing, the at least one tube defining a proximal opening and a distal opening, the proximal opening contacting the iron anode through the separator and the distal opening contacting the electrolyte thereby establishing fluid communication between the iron anode and the electrolyte through the tube.

15. (New) The rechargeable nickel-iron electrochemical cell of claim 14 further comprising a charging electrode disposed in the housing between the iron anode and the nickel cathode.

16. (New) A rechargeable nickel-iron electrochemical cell comprising:

a housing;

a iron anode, a nickel cathode, and a separator disposed in the housing and enveloping the iron anode, the nickel cathode in ionic communication with the iron anode through the separator;